

DESALITE NEWSLETTER



BITS N' BYTES

September 2018

Newsletter by the Department of Computer Science

SFS/ BCA 01/ Sep 18

Message from the Principal



Fr. Dr. Roy P.K.
PRINCIPAL

Dear DeSalites,
I'm very pleased to note that the first issue of the newsletter from the Department of Computer Science for the

academic year 2018-19 will be released in September 2018. In this era of technology, computers and digitalization, knowledge about machines is very essential. It will definitely help a person to have a distinct lead over the others who do not have a degree in Computer Applications. A student perusing the Bachelor in Computer Applications (BCA) under the Bangalore University will undergo a three year undergraduate degree course which is divided into six semesters. The course syllabus will cover subjects which are related to the technological applications, information and skills that are required in today's practical work field. The college will also equip the students in communica-

tion, organization, latest development in IT and managerial skills that are needed to go forward and shine in their lives. Definitely, the openings available for students doing BCA are plenty, such as software developers, web designers, faculty for computer science/technology/communication, system and network administrators, software tester, junior programmer etc. An added advantage of studying in our college is that, being located in Electronic city, students after completing their BCA degree, can easily find lucrative job opportunities in leading IT companies like Infosys, Oracle, Wipro and IBM. It is rightly said that, "a dream becomes a goal when action is taken towards its accomplishment". I wish all the very best to all the students and faculty members of BCA department for a fruitful academic year ahead and pray that may your dreams come true with your hard work and blessings of the Almighty.

God bless !

QUOTE

Being afraid to try is normal...

But trying it is what makes you a legend.

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FUN FACTS

The two main components in IT (Information Technology) are hardware and software. But there is also a lesser known 'grey' component. This is the software that is stored in hardware and cannot be modified easily. It is known as 'firmware'.

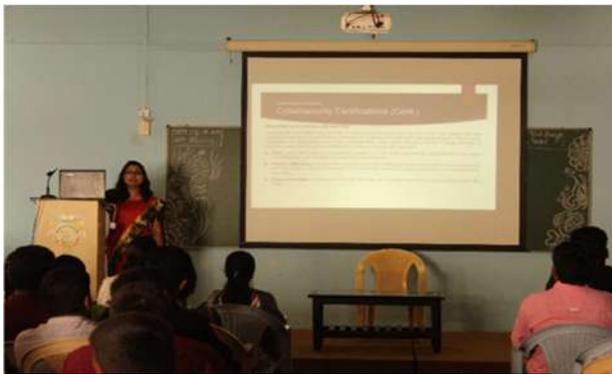
Guest Lecture: INFINITY

In today's world, hoarding knowledge ultimately erodes your power. If you know something very important, the way to get power is by actually sharing it. A Lecture is an occasion when you numb one end to benefit the other. In this, The Department of Computer Science had organized an infinite guest lecture for three days.

On 9th July 2018 Prof. Dr. Chandra enlightened all the students with current emerging trends of Big Data Analytics. She inspired student to take up Big Data Analytics for further research.

Dr Samiksha Shukla gave students deep understanding by talking about security issues, how to prevent and be safe from unethical way of using internet. The session was on 10th July 2018.

On 11th July 2018, session was handled by Ms. Manjula Kumar. She initiated her session with an overview of Emerging trends.



Freshers' day: Rangī ya maisha (Colors of Life)



Rangī ya maisha held on 28 August 2018 saw an explosion of talent, showcasing of first year students. This event was a great stress buster and helped the students to build their self-esteems and confidence.

STUDENTS CORNER

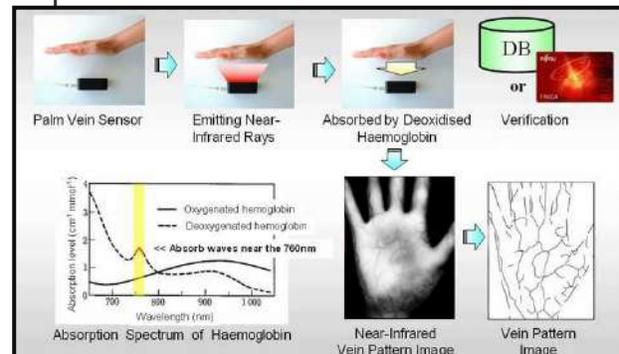
PALM VEIN TECHNOLOGY

Palm Vein Technology is the latest addition to biometrics authentication system developed by FUJITSU Research Group, headquartered in Tokyo, Japan. This biometric authentication system identifies you based on the vein patterns of your palm. This system is one of the most secure form of authentication system with False Rejection Rates of Rejection Rates of 0.01% and False Acceptance Rates as low as 0.00008%. This system has a very high accuracy due to the fact that no two individual even twins don't share the same vein patterns it's a unique physiological identity that a person possesses along with retinal and iris patterns. This system works by scanning your vein patterns using near session with an overview of emerging trends. The scanner module shines a beam of near Infrared rays onto your palm and the dioxygenated blood running through your veins absorb those rays and appear as dark lines which are recorded by the system, encrypted and stored in the database as a Template with other important details for future references.

USES: At ATM'S, As virtual Passport, At hospitals, At work places

ADVANTAGES OF THIS SYSTEM:

- Our Vein pattern cannot be stolen unlike fingerprints.
- This system is cheaper to install unlike retinal and iris scanners.
- Provides high security, Remembering passwords like ATM pins will become a past.
- It's the first personal contactless authentication system which means that it is very hygienic and can be used in hospitals.
- The near infrared rays used is harmless to people.



Abhishek Gourav (1st Year BCA)

WIFI PINEAPPLE

At the core of the wifi pineapple is pineAP, an advanced suite of wireless penetration testing tools for reconnaissance, man in the middle, tracking, logging and reporting.

Utilizing our hardware design, pineAP is the most effective rogue access point suite available. Simplicity is the key to any successful audit, which is why management of the wifi pineapple is conducted from an intuitive web interface. Built on modern standards for speed and responsiveness, the beautiful web interface puts the penetration tester in control from any device.



Ebenezer L. - I BCA

#8PROMARKS3

The proxmark3 is a device developed by jonathan westhues that can read almost any RFID (radio frequency identification) Label, as well as clone and sniff them. It can also be operated in standalone mode.

That is without a PC through the use of batteries. RFID was first introduced for identification purpose only, but was quickly adopted for other applications in commerce and transportation. RFID technology is now known in widespread use for a variety of applications across many industries.



Ebenezer L. - I BCA

FACULTY CORNER - "BEAM BRUSHING"



Brushing our teeth is one of the few experiences that has not varied much over the decades, with the last radical innovation being the invention of the electric toothbrush in 1950s. But now a day's one new technology has already arrived to brush our teeth. This is Bluetooth enabled beam brush.

The Beam Brush is the world's first smart toothbrush, a manual brush that monitors your oral hygiene habits and reports them to a smartphone aptitude. Beam Technologies' Beam Brush is a tooth brush with "aptitude".

The app-connected Beam Brush manual toothbrush has a sensor embedded into it that maps brushing behavior and sends the data to an associated Android or iPhone app via Bluetooth.

The Beam App allows users to connect to multiple brushes and upload brushing length and frequency data to an easy-to-read interface so that the entire family can compare statistics. Users also have the option to send their data to their dentist ahead of cleaning appointments so oral care habits can be considered in treatment planning.

The app includes a timer that can play music for 2 minutes while brushing and indicate when it's time to replace the brush head. The Beam Brush responds to the mouth and wirelessly sends a record of your oral hygiene habits to your smartphone.

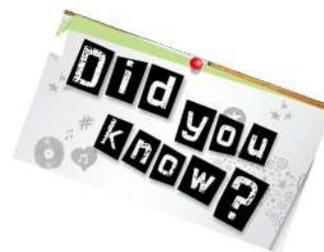
To get best out of the Beam Brush, we have to set our phone by the sink. The apps 2 minutes timer could urge us on; our phone will vibrate every 30 seconds and will display message that "Next Quadrant"

The brush and its app can sync automatically if they are near to each other; otherwise the data is stored on the brush (for up to three weeks) until you are ready to upload it by bringing the phone within range and pressing the brush's one button.

Dr. Smrity Prasad - Asst. Professor

FUN FACTS

- The very first Apple Computer logo, drawn by Ronald Wayne, depicts Isaac Newton under an apple tree.
- 86% of people try to plug their USB devices upside down.
- Amazon.com was Previously known as Cadabra.com
- A single Google query uses 1,000 Computers in 0.2 seconds to retrieve an answer.
- Be careful while using your mobile phone, it might have 18 times more bacteria than toilet handles.
- There are over 3.5 billion searches per day on Google.
- A new term has been created, "The Silver Surfer" for those seniors +50 who use the internet on a frequent basis.
- Internet users blink an average of 7 times per minute, when the average is 20 times. Now you know why you need to put all that eye drops in your eyes!
- The first version of Snapchat was called 'Picaboo'.
- CAPTCHA means "Completely Automated Public Turing Test to tell Computers and Humans Apart".
- Apple has a 'no smoking' ban regarding their computers, which means if you smoke while using an Apple computer, you void the warranty.
- Technophobia' is a fear of technology.
- Around 20% of all You Tube videos are music related.
- Someone on Twitter who has a million or more followers is known as a 'Twillionaire'.
- The three most commonly used passwords in the world are 123456, password and 12345. It doesn't seem very recommendable to use any of them, really.
- The first computer virus was developed in 1971. Its name was Creeper and it was circulating on ARPANET. It was completely harmless: it was created only as an experiment, to see how it spread from one computer to another.



OFFICE BEARERS

Cyber Spirits Association started its academic year with office bearers' election with the strength of 185 members of the Department of Computer Science as dated on 3rd August 2018. The Bearers were explained about the roles and responsibilities by the coordinator. The following members were elected:

President: **Ms. Shaikh Umme Hermain** (III BCA)

Vice-President: **Ms. Tulsi Kumari** (II BCA)

Secretary: **Mr. Abhishek Gourav** (I BCA)

Event Coordinators:

1. Ms. Sherine Sajeeve(III BCA)

2. Mr. Anush(II BCA)

3. Mr. Rakesh Halder. A (IBCA)

The elected leaders promised that they will fulfill your duties and responsibilities without fail and the association members dispersed.



BITS N' BYTES is a Newsletter published from the **Department of Computer Science - St Francis de Sales College, Electronics City, Bengaluru - 560100**. It highlights the activities of the Department and serves as a link between the Department as well as other colleges. You are welcome to send your feedback to sfsnewsletters@gmail.com

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